MANUFACTURE OF GAS DETECTION ELEMENT

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Classification

G01N27/12; G01N27/16; G01N27/12; G01N27/14; (IPC1-7): G01N27/16 - international: - European: O01N97/16

Application number: JP19800160209 19801114

Priority number(s): JP19800160209 19801114 PURPOSE:To improve the response characteristics

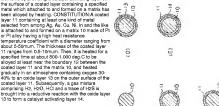
while enhancing the mechanical strength of

Abstract of JP 57084342 (A)

elements by providing a catalyst activating layer on the surface of a coated layer containing a specified metal which attached to and formed on a matrix has been alloyed by heating. CONSTITUTION:A coated layer 11 containing at least one kind of metal selected from among Ag, Au, Cu, Ni, In and the like is attached to and formed on a matrix 10 made of Pt or Pt alloy having a high heat resistance temperature coefficient with a diameter ranging from about 5-50mum. The thickness of the coated layer 11 ranges from 0.5-10mum. Then, it is heated for a specified time at about 800-1,000 deg.C to be alloyed at least near the boundary 12 between the coated layer 11 and the matrix 10, and heated gradually in an atmosphere containing oxygen 30-40% to an oxide layer 13 on the outer surface of the coated layer 11. Subsequently, a gas mixture

comprising H2, H2O, HCl and a trace of H2S is

13 to form a catalyst activating layer 14.



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